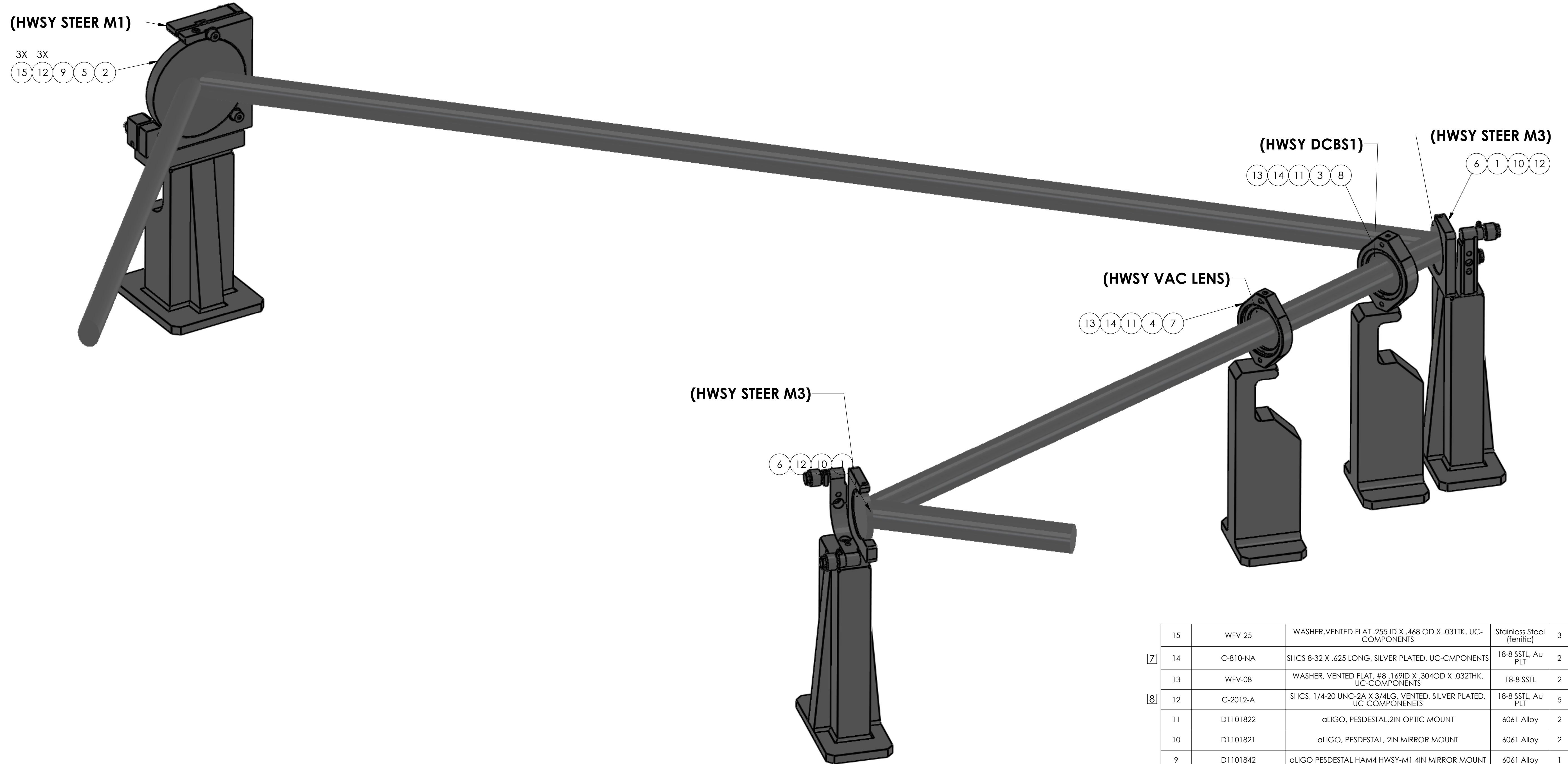


NOTES CONTINUED:
 5. SEE SHEET 2 AND 3 FOR LAYOUT DIMENSIONS
 6. ALL DIMENSIONS ARE WRT HAM4 0,0,0 LOCAL CS.
 7. #8-32 TORQUE TO 20 in-lb, MAX
 8. 1/4-20 TORQUE TO 65 in-lb, MAX

REV.	DATE	DCN #	DRAWING TREE #
v1	03-MAY-12	E1100986-v1	E1100987-v1
-	-	-	-
-	-	-	-



OPTICAL TABLE OMITTED FOR CLARITY
 SEE PARENT ASSEMBLY D1101846 FOR CONTEXT

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
15	WFV-25	WASHER, VENTED FLAT .255 ID X .468 OD X .031TK. UC-COMPONENTS	Stainless Steel (ferritic)	3	1	4
14	C-810-NA	SHCS 8-32 X .625 LONG, SILVER PLATED, UC-COMPONENTS	18-8 SSTL, Au PLT	2	2	4
13	WFV-08	WASHER, VENTED FLAT, #8, 1.69ID X .304OD X .032THK. UC-COMPONENTS	18-8 SSTL	2	2	4
12	C-2012-A	SHCS, 1/4-20 UNC-2A X 3/4LG, VENTED, SILVER PLATED. UC-COMPONENTS	18-8 SSTL, Au PLT	5	3	8
11	D1101822	αLIGO, PEDESTAL, 2IN OPTIC MOUNT	6061 Alloy	2	0	2
10	D1101821	αLIGO, PEDESTAL, 2IN MIRROR MOUNT	6061 Alloy	2	0	2
9	D1101842	αLIGO PEDESTAL HAM4 HWSY-M1 4IN MIRROR MOUNT	6061 Alloy	1	0	1
8	D1102166	ISC Fixed Optic Holder- custom size for LIGO . Siskiyou	6061 Alloy	1	0	1
7	FOH-2.00	FIXED OPTIC HOLDER. SISKIYOU	6061 ALLOY	1	0	1
6	IXM200.C	MOUNT, 100TPI, 2IN OPTIC CUTAWAY, RH, SISKIYOU	6061 Alloy	2	0	2
5	IXM400.A3-VC	LIGO 4IN OPTIC MOUNT. SISKIYOU	6061 Alloy	1	0	1
4	PLCC-50.8-772.6-UV-830	LASER QUALITY_CONCAVE LENSE. CVI MELLES GRIOT	Glass	1	0	1
3	D1200214	αLIGO TCS HWS DICHROIC BEAM SPLITTER, PRECISION PHOTONICS	Glass	1	0	1
2	PF40-03-P01	4IN METALLIC MIRROR. THOR LABS	N-BK7 w-PROT. Au PLT	1	0	1
1	PF20-03-P01-10	2IN METALLIC MIRROR. THOR LABS	N-BK7 w-PROT. Au PLT	2	0	2
PARTS LIST						

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .01 .XXX ± .005 ANGULAR ± 1.0°	MATERIAL N/A FINISH N/A μinch

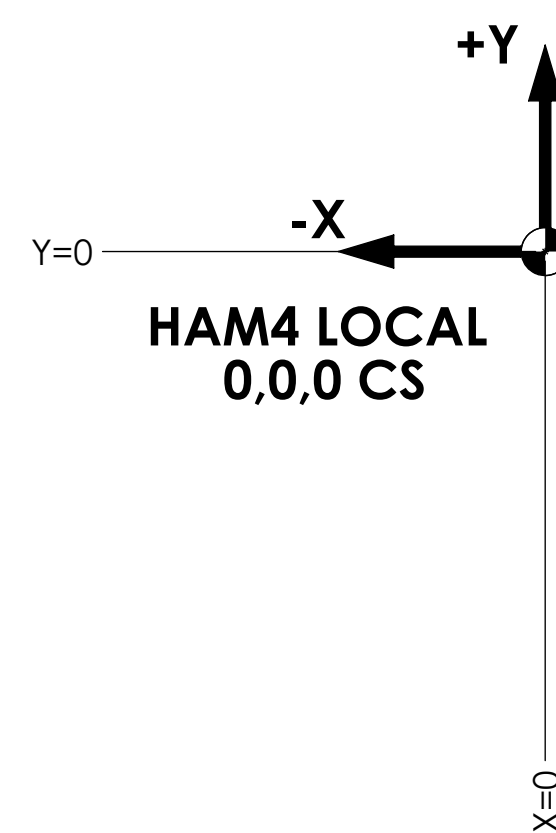
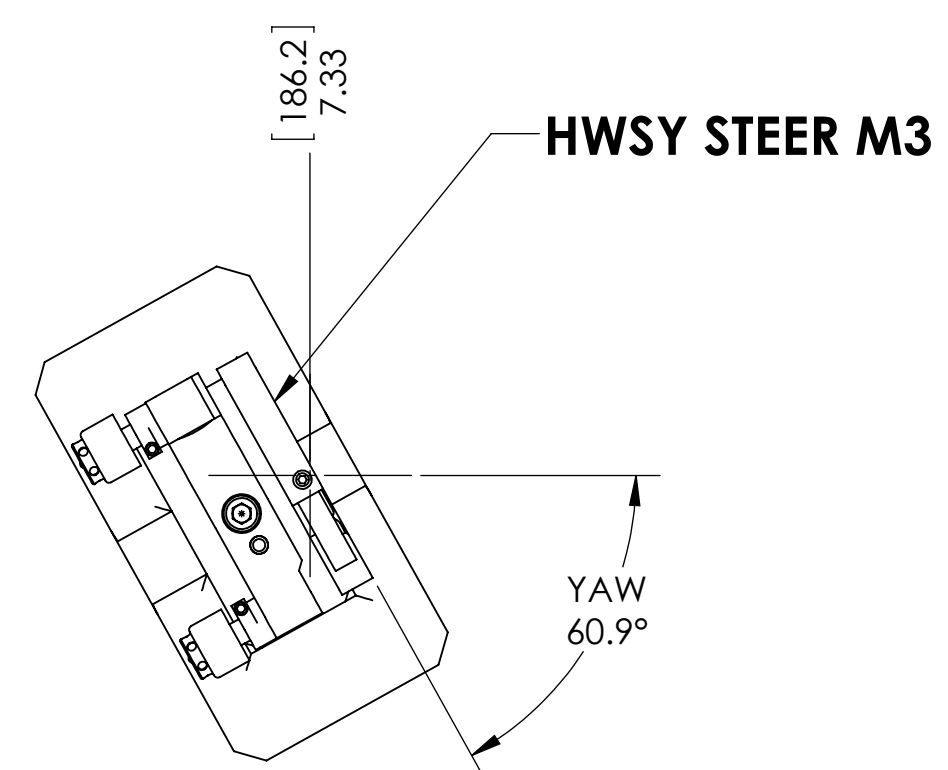
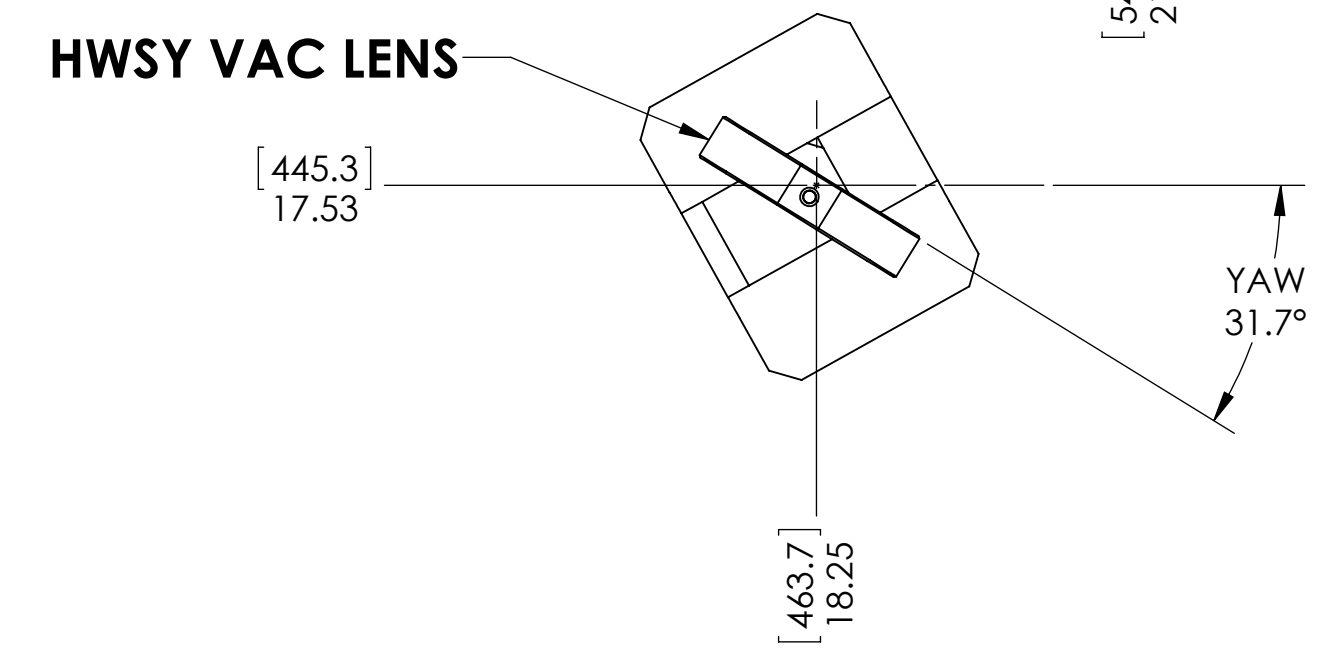
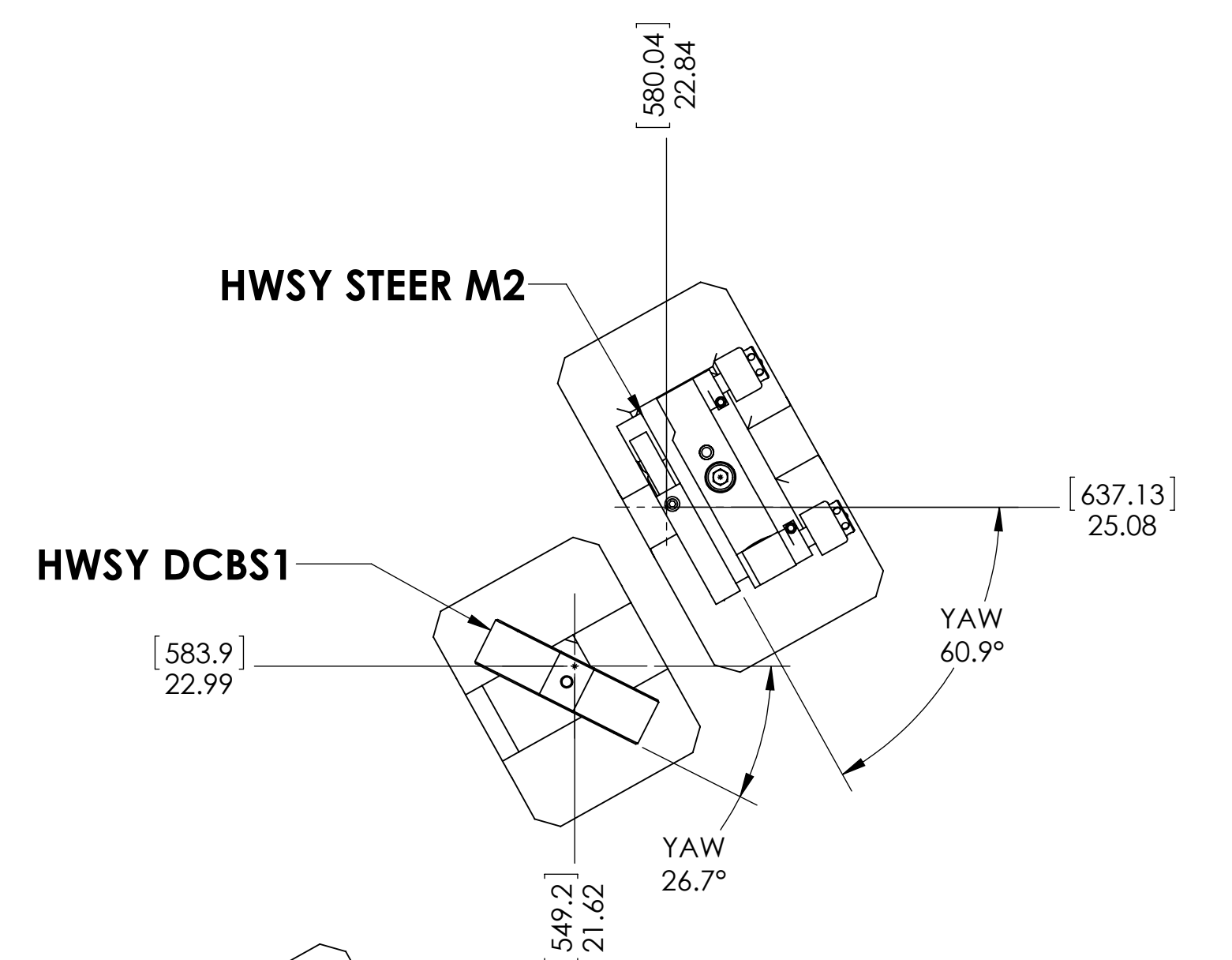
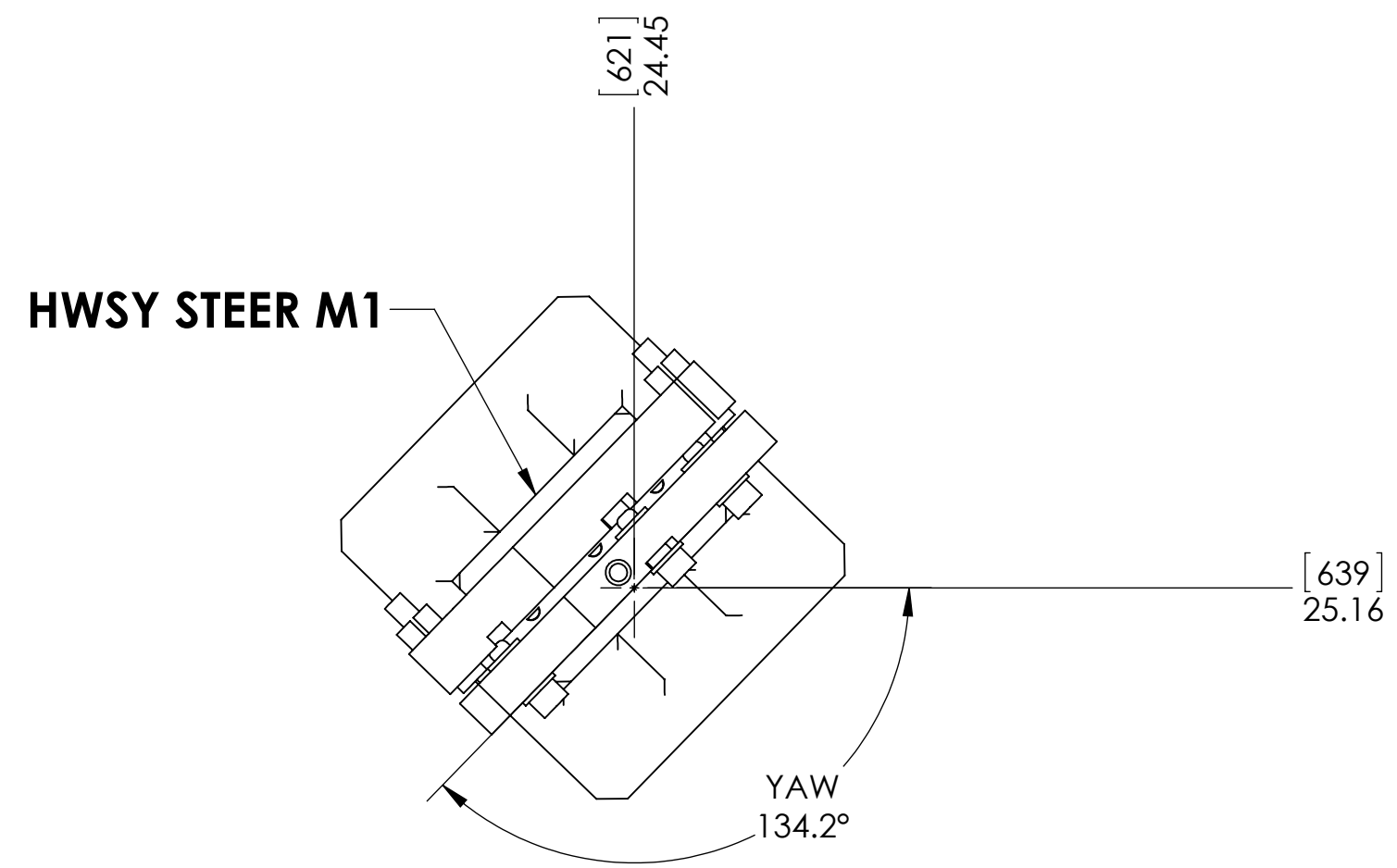
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO SUB-SYSTEM: AOS NEXT ASSY: D1101846

PART NAME αLIGO TCS HWS OPTO MECHANICAL LAYOUT, ITMY, L1		DESIGNER: A. BROOKS 02 DEC 2010	SIZE: D	DWG. NO. D1101848	REV. v1
DRAFTER: A. COLE 29-NOV-2011	CHECKER: M. JACOBSON 03-MAY-2012	APPROVAL: A. BROOKS 03-MAY-12	SCALE: 1:8	PROJECTION:	SHEET 1 OF 3

D1101846.dwg TCS HWS OPTO MECHANICAL LAYOUT, ITMY, PART PDM REV. X066, DRAWING PDM REV. X040

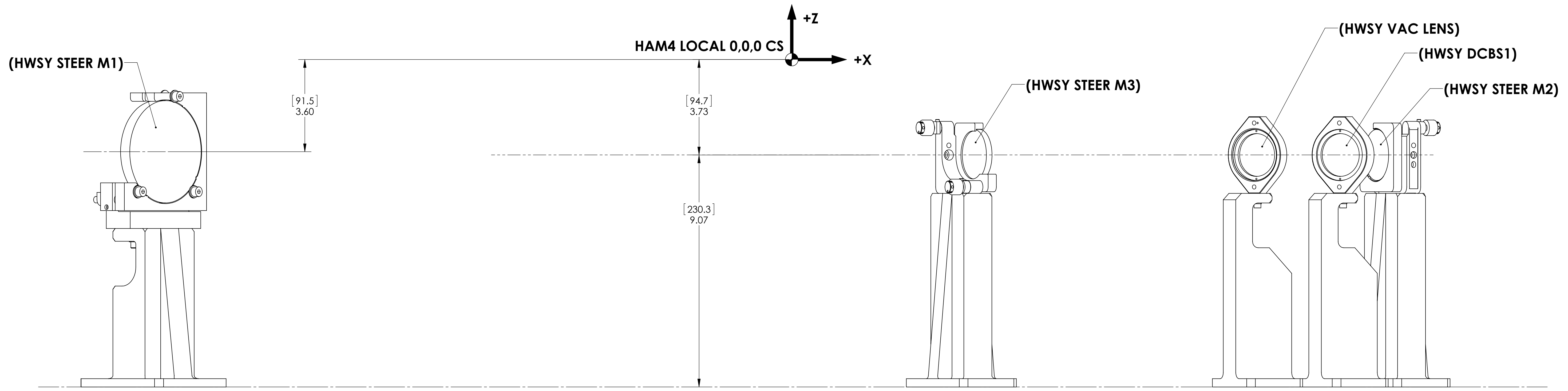
D:\101848_d\LOGO\TCS\HWS\OPTO\MCHANICAL\LAYOUT.TIM; PART PDM.REV.X.066; DRAWING PDM.REV.X.040



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D1101848	v1
SCALE: 1:8	PROJECTION: SHEET 2 OF 3

8 7 6 5 4 3 2 1

H
G
F
E
D
C
B
A



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
D	D1101848	v1
SCALE: 1:8	PROJECTION:	SHEET 3 OF 3

8 7 6 5 4 3 2 1

D:\101848_d\LOGO_TCSE_HWS_OPTO_MECHANICAL_LAYOUT.TIMY: PART PDM_REV.X066: DRAWING PDM_REV.X040